

stone steps to the west side of the museum F1002 (Film 1.4) revealed they were embedded into a sandy layer which sat on a firm pinky dense brown clay 1013 (Film 1.32) – see Photograph 2. This had stone and pebble inclusions, was sticky and strong in consistency and was the fill of the whole of the front terrace of the museum.

The artefacts were mainly willow pattern china, some creamware from Leeds, clay pipe stems, glass and kitchen pancheon ware. All these finds were of a compatible date with the building of the Rotunda Museum. This clay layer was 40mm below the black loamy garden soil which covered the base stones of the museum (Film 1.10).

The west wing was built in 1860-61. Below the stone ashlar there are brick foundations F1007 (Film 1.15) which are 75mm deep (Film 3.22a) - See photograph 3. It was terminated with a brick rubble base (Film 3.9). This had been built off a sandy base with layering of boulder clay 1008 (Film 3.3a) – see Photograph 4. This seemed to be a natural form, with no inclusions. The underpinning structure of the whole of the brick build wall is shown in Film 4.16a.

The east wing was also built in 1860-61 although the foundation detail is different and better quality and gives the impression of a different build from the west wing. Here the depth of brick underpinning is 1.75m before the base of heavy dense dark brown boulder clay 1009 (Film 1.35) – see Photograph 5. This same boulder clay had been re-deposited against the finished build of the underpinning (Film 1.34), entirely different to the sandy deposit on the west side (Film 3.33a).

The drum was built in 1827. Unlike the two wings the drum has a cellar and as reported above the floor of this is built off natural clay. The cellar floor is at the same level as the footpath south of the front garden. Externally the ground stripping revealed that the cellar walls consisted of good quality coursed rubble, well pointed and this seems to indicate that the walls were exposed when built, rather than cut into the clay and that the clay against these walls had been re-deposited later. There was no foundation cut for this feature. The cellar walls had three arched openings, the arches being brick, the central arch being blocked by brickwork. These arched openings must have been top provide light to the cellars and had a metal grille at surface level – remnants are to be seen.

Two culvert drains F1012 was found to be running around each side the central drum of the museum in a curve (Film 3.9) -see Photograph 6. This was from the first stage of the build to drain away any water from the higher ground around the base of the museum and away following the natural slope of the land to the front. The drains were clearly a response to the poor ground and drainage conditions which were encountered at the time of building the drum. The drains had brick walls (Film 3.18a) and a heavy stone capping to the top. The east side had a gravel and stone mix base on clay and the west side had a clay tile bottom.

The museum was built on a 'plateau' of land which had been cut from the natural form of the sloping land and into the boulder clay from which the cellar was built this decision being an after thought following land slippage. The front terrace was then filled with a mix of clay and garden soil to landscape the front. The whole of this area was supported to the south with a curved stone wall F1014, Film 3.29a. Natural undisturbed clay lies at the same level as that within the cellar and at path level - see Photograph 8.

There was no evidence of any archaeological remains dating from before the erection of the museum on this site at the depths examined.

With the exception of one fragment of medieval Scarborough Ware, the pottery found in all these locations was either post medieval or 19<sup>th</sup> century (97%) and this is consistent with the deposits being made during the construction of the museum.

### **Interpretation**

It is recorded that during the building of the drum poor ground conditions were encountered and there was a slippage. The decision was therefore taken at the time to incorporate a cellar into the design – ie the cellar was an after thought. The archaeological monitoring has shown that this was carried out by taking the ground down to the same level as the current cellar floor, building the drum and then backfilling against it to put the ground level back to approximately its original height

### **Conclusion**

The archaeological monitoring has provided important information about the way in which the museum was constructed in the 19<sup>th</sup> century.

The archaeological monitoring has shown that any earlier archaeology which may have existed was destroyed during the erection of the museum in the 1820's and its wings in the 1860's and that no important archaeological survival has been affected by the current works

### **References**

Hinderwell, T – The History & Antiquities of Scarborough 3<sup>rd</sup> edition. 1832 p132

Knox, R – Descriptions Geological, Topographical and Antiquarian in Eastern Yorkshire. 1855

Pearson, T - An Archaeological Survey of Scarborough. 1987

Purcell, Miller, Tritton – Rotunda Museum, Scarborough - Conservation Plan. 2004

SAHS, - An assessment of Stone Artefacts – Rotunda Museum Scarborough. November 2005

### **Maps consulted**

1725	'A new and exact plan of Scarborough'	J Cossins
1747	A plan of Scarborough	W Vincent
1770	A plan of Scarborough	published in Jeffries
1782	A Plan of the Town of Scarborough	J Foord
1798	A plan of Scarborough	published in Hinderwell, 1798
1828	A plan of the Town and Environs of Scarborough	J Wood
1842	'A new and accurate plan of Scarborough	A G Tyson
1852	Ordnance Survey plan of Scarborough at a scale of 1:1056	
1892	Ordnance Survey plan of Scarborough at a scale of 1:500	
1912	Ordnance Survey plan of Scarborough at a scale of 1:2500	
1929	Ordnance Survey plan of Scarborough at a scale of 1:2500	
1939	Ordnance Survey plan of Scarborough at a scale of 1:2500	
1965	Ordnance Survey plan of Scarborough at a scale of 1:1250	

## ANNEX 1 – LIST OF CONTEXTS

1000	Rich black garden soil.
1001	Soil and clay, mix of small pieces brick, pebbles, sand, stones.
F1002	Cut stone steps
1003	Fine sandy mix, small pebbles.
1004	Fill stones , concrete.
F1005	Stone wall.
F1006	Cut stone wall of Rotunda Museum.
F1007	Brick plinth.
1008	Sand at base of wall.
1009	Boulder clay.
1010	Boulder clay layer.
F1011	Tarmac pathway.
F1012	Culvert Drain.
1013	Clay fill, mix .
F1014	Stone boundary wall.
F1015	Stone base to drum

**ANNEX 2- SCHEDULE OF PHOTOGRAPHS TAKEN DURING MONITORING**

SITE NAME		Rotunda Museum		Film 1	SITE CODE	RT 06
FILM NUMBER		first			FILM TYPE	Colour print
Date	Frame No	Direction of view	Description		Context	Scale
10 10 06	2	east	Front view west side steps			2mtr
10 10 06	3	north	Front steps of Rotunda			
10 10 06	4	north	Front of Rotunda		discarded	
10 10 06	5	north	East front of Rotunda		discarded	
10 10 06	6	inside	Wallpaper in central area			
10 10 06	7	down	Central spiral stairway			
10 10 06	8	inside	Display cabinets inside central display area			
10 10 06	9	inside	Dome of museum			
10 10 06	10	inside	Internal stairway of museum		discarded	
10 10 06	11	down	cast iron heating duct			
10 10 06	12	east	to central drum			
10 10 06	13	west	west wing			
10 10 06	14	south	west wing			
10 10 06	15	north	marble plaque on wall in entrance			
10 10 06	16	north	west steps			2mtr
10 10 06	17	east	west steps		discarded	2mtr
10 10 06	18	north	inside museum			
10 10 06	19	west	west wing brick and stone			
10 10 06	20	east	main entrance			
10 10 06	21	east	east wing ceiling			
10 10 06	22	west	stairway to museum gallery			
10 10 06	23	down	details of banisters			
10 10 06	24	down	gallery cabinets original			
10 10 06	25	up	underneath spiral stairs			
10 10 06	26	up	underneath spiral stairs			
10 10 06	27	up	2nd gallery and dome			
10 10 06	28	down	spiral stairway			
10 10 06	29	east	F1002 and F1005			2mtr
10 10 06	30	east	F1005			2mtr
10 10 06	31	down	F1005 and 1013			500
10 10 06	32	down	F1005 and front F1014			
10 10 06	33	west	F1005			
10 10 06	34	east	F1005 and F1002, F1014			2mtr
10 10 06	35	down	F1014		discarded	500
10 10 06	36	east	Front of Rotunda		discarded	
10 10 06	37	north	F1002, F1005			2mtr

SITE NAME			Rotunda Museum	Film 2	SITE CODE	RT 06
FILM NUMBER			2		FILM TYPE	Colour print
Date	Frame No	Direction of view	Description		Context	Scale
10 10 06	2	east	1001 underneath F1002 stone steps			500
10 10 06	3	east	1001 underneath F1002 steps			500
10 10 06	4	east	view of steps at front of Rotunda			2mtr
10 10 06	5	east	steps F1002		discarded	2mtr
10 10 06	6	north	F1006,1000,1001		discarded	2mtr
10 10 06	7	north	view of 1000, 1001, 1003, 1004			500
10 10 06	8	north	F1006, F1007,1001 1003 1004			2mtr
10 10 06	9	north	F1006, F1007, 1003		discarded	500
10 10 06	10	north	F1006, F1007 1001,1003,1004 front of Rotunda			2mtr
10 10 06	11	north	F1006 1000,1001. 1003		discarded	2mtr
10 10 06	12	north	F1006, F1007, 1003		discarded	2mtr
10 10 06	13	down	F1006 F1007 1000		discarded	2mtr
10 10 06	14	north	1,000,100,110,091,000			2mtr
10 10 06	15	north	F1006, F1007.1008 1009			2mtr
10 10 06	16	north	F1006, F1007, 1009		discarded	2mtr
10 10 06	17	north	F1007, 1009		discarded	2mtr
10 10 06	18	down	F1007, F1008 1009			2mtr
10 10 06	19	north	F1006 F1007 1008 1009			2mtr
10 10 06	20	north	Front of Rotunda		discarded	2mtr
10 10 06	21	north	Front garden of Rotunda and steps			2mtr
10 10 06	22	north	F1014 frontwall			2mtr
10 10 06	23	west	F1002 stone steps			2mtr
10 10 06	24	east	steps F1002			2mtr
10 10 06	25	north	F1014 front stone wall			2mtr
10 10 06	26	down	F1005 wall and F1002 steps			2mtr
10 10 06	27	north	F1005 north wall		discarded	2mtr
10 10 06	28	north	F1005 wall			2mtr
10 10 06	29	west	stone steps F1002 1001			2mtr
10 10 06	30	west	F1002 steps 1001		discarded	2mtr
10 10 06	31	west	F1002 steps 1001		discarded	2mtr
10 10 06	32	north	F1006 ,1000,1001,1009			2mtr
10 10 06	33	north	F1006 1000 1009		discarded	2mtr
10 10 06	34	north	F1006,F1007 1009			2mtr
10 10 06	35	north	F1006 F10071000 1001 1009			2mtr
10 10 06	36	down	F1007 1009			2mtr
10 10 06	37	down	F1006 F1007 1000 1001 1009			2mtr

SITE NAME			Rotunda Museum	Film 3	SITE CODE	RT 06
FILM NUMBER			3	FILM TYPE	Colour print	
Date	Frame No	Direction of view	Description	Context	Scale	
12 10 06	2	north	F1006 1009	discarded		
12 10 06	3	north	F1006, F1007 ,1009 brick base and wall		2mtr	
12 10 06	4	north	F1009	discarded		
12 10 06	5	north	F 10091007			
12 10 06	6	east	fillsoil	discarded		
12 10 06	7	east	F1011,1000, 1013	discarded		
12 10 06	8	east	F1011 , 1000, 1013	discarded		
12 10 06	9	east	fill F1011, 1000 1013	discarded	2mtr	
12 10 06	10	east	fill F1011,1000,1013		2mtr	
12 10 06	11	east	fill F1011 1000 1013	discarded	2mtr	
12 10 06	12	east	fill F1011 1000 1013		2mtr	
12 10 06	13	east	fill of garden front		2mtr	
12 10 06	14	east	fill of garden front		2mtr	
12 10 06	15	north	F1006,F1011, 1013		2mtr	
12 10 06	16	north	gate	discarded	2mtr	
12 10 06	17	north	F1006, f1007 1009	discarded	2mtr	
12 10 06	18	north	F1006, F1007 1009		2mtr	
12 10 06	19	north	F1005 1000 1013 1009		2mtr	
12 10 06	20	east	F1011 1013 F1012 culvert drain			
12 10 06	21	east	F1011 1013 F1012 culvert drain F1006		2mtr	
12 10 06	22	north	F1011 1013 F1012 drain	discarded	2mtr	
12 10 06	23	east	F1011 1013		2mtr	
12 10 06	24	north	F1011 1013 F1012		2mtr	
12 10 06	25	down	F1012 drain	discarded	2mtr	
12 10 06	26	north	F1006 F1012 drain		2mtr	
12 10 06	27	east	F1012 drain		2mtr	
12 10 06	28	down	F1012 drain	discarded	2mtr	
12 10 06	29	down	F1012 drain		2mtr	
12 10 06	30	north	F1012 drain		500	
12 10 06	31	north	F1011 1013	discarded	2mtr	
12 10 06	32	north	F1011, 1013.F1012		2mtr	
12 10 06	33	east	F1011 1013 F1012		2mtr	
12 10 06	34	down	1013 1003	discarded		
12 10 06	35	east	F1011,1013,1003	discarded		
12 10 06	36	down	F1011 1013			
12 10 06	37	south	F1014 1013			

SITE NAME		Rotunda Museum		Film 4	SITE CODE	RT 06
FILM NUMBER		4		FILM TYPE	Colour print	
Date	Frame No	Direction of view	Description	Context	Scale	
13 10 06	1a	west	cellar window, base of Rotunda			
13 10 06	2a	west	cellar window, base of Rotunda	discarded		2mtr
13 10 06	3a	east	front fill			2mtr
13 10 06	4a	east	front fill 1013	discarded		2mtr
13 10 06	5a	north	Front of rotunda F1014 ,1013			500
13 10 06	6a	north	Front of rotunda F1014 ,1013	discarded		500
13 10 06	7a	north	F1006, 1013 ,F1011			2mtr
13 10 06	8a	east	Front of rotunda F1011, 1013			2mtr
13 10 06	9a	north	1008, F1012			2mtr
13 10 06	10a	west	stepla at front east side	discarded		2mtr
13 10 06	11a	north	plinth below steps			2mtr
13 10 06	12a	west	window of cellar	discarded		2mtr
13 10 06	13a	west	window of cellar			2mtr
13 10 06	14a	west	F1012 appearing			2mtr
13 10 06	15a	down	F1012 appearing			2mtr
13 10 06	16a	west	F1012 appearing on east side			2mtr
13 10 06	17a	north	F1012 east side	discarded		2mtr
13 10 06	18a	down	F1012 east side			2mtr
13 10 06	19a	north	Front west side F1006 F1007			2mtr
13 10 06	20a	north	Front west side F1006 F1007			2mtr
13 10 06	21a	north	Front west side F1006 F1007	discarded		2mtr
13 10 06	22a	north	Front west side F1006 F1007			2mtr
13 10 06	23a	north	Front west side F1006 F1007 F1015			2mtr
13 10 06	24a	north	Front west side F1006 F1007 F1015			2mtr
13 10 06	25a	north	Front of Rotunda cellar window F1015			2mtr
13 10 06	26a	north	Front of Rotunda F1015	discarded		2mtr
13 10 06	27a	north	Front of Rotunda west side			
13 10 06	28a	north	Front of Rotunda west side			
13 10 06	29a	north	front of Rotunda			
13 10 06	30a	down	1008 F1012			2mtr
13 10 06	31a	down		1008		2mtr
13 10 06	32a	down	1008 F1012			2mtr
13 10 06	33a	down	f1007 1008			2mtr
13 10 06	34a	down		1008		2mtr
13 10 06	35a	west	side section showing layers 1008			2mtr
13 10 06	36a	west	side section showing layers 1008	discarded		2mtr



SITE NAME		Rotunda Museum		Film 5	SITE CODE	RT 06
FILM NUMBER		5		FILM TYPE	Colour print	
Date	Frame No	Direction of view	Description	Context	Scale	
14 11 06	3a	west	inside underpinning cut showing section		2mtr	
14 11 06	4a	east	F1012 and section	discarded	2mtr	
14 11 06	5a	north	F1007 underpinning	discarded	2mtr	
14 11 06	6a	west	section under F1007		2mtr	
14 11 06	7a	north	1009 clay under F1007		2mtr	
14 11 06	8a	north	F1007 1009		2mtr	
14 11 06	9a	east	F1007 1009	discarded	2mtr	
14 1 1 06	10a	east	F1007 1009		2mtr	
14 11 06	11a	east	F1007 1009	discarded	2mtr	
14 11 06	12a	down	bottom of F1007 east side		2mtr	
14 11 06	13a	down	bottom of F1007 east side		2mtr	
14 11 06	14a	down	bottom of F1007 east side	discarded	2mtr	
14 11 06	15a	down	bottom of F1007 west side		2mtr	
14 11 06	16a	up	stones supporting base F1007		2mtr	
14 11 06	17a	up	stones supporting base F1007	discarded	2mtr	
14 11 06	18a	east	side front of Rotunda		2mtr	
14 11 06	19a	west	side front of Rotunda		2mtr	
14 11 06	20a	up	Rotunda		2mtr	
14 11 06	21a	east	east front Rotunda	discarded	2mtr	
14 11 06	22a	down	under F1007 F1012		2mtr	
14 11 06	23a	down	under F1007 F1012	discarded	2mtr	
14 11 06	24a	down	under F1007 F1012		2mtr	
14 11 06	25a	down	under f1015 1009 WEST		2mtr	
14 11 06	26A	down	Under f1007 f1012	discarded	2mtr	
14 11 06	27a	down	under F1007 into 1009	discarded	2mtr	
14 11 06	28a	down	under F1007 1009 east side		2mtr	
14 11 06	29a	east	front of rotunda	discarded	2mtr	
14 11 06	30a	west	east front Rotunda	discarded	2mtr	
14 11 06	31a	east	front of rotunda		2mtr	
14 11 06	32a	west	front of rotunda		2mtr	
14 11 06	33a	north	front of rotunda		2mtr	
14 11 06	34a	west	front of rotunda	discarded	2mtr	
14 11 06	35a	north	f1014 F1006 front of Rotunda		2mtr	
14 11 06	36a	east	, F1014 F1006 east front of Rotunda		2mtr	

SITE NAME			Rotunda Museum	Film 6	SITE CODE	RT 06
FILM NUMBER			6	FILM TYPE	Colour print	
Date	Frame No	Direction of view	Description	Context	Scale	
17 11 06	1a	east	front of Rotunda Museum			
17 11 06	2a	west	1013 front fill	discarded		2mtr
17 11 06	3a	west	1013 front fill			2mtr
17 11 06	4a	down	1013 front fill	discarded		2mtr
17 11 06	5a	down	1013 front fill	discarded		2mtr
17 11 06	6a	down	1013 front fill F1014	discarded		2mtr
17 11 06	7a	down	1013 front fill F1014	discarded		2mtr
17 11 06	8a	east	F1015,F1012,1013	discarded		
17 11 06	9a	east	F1015,F1012,1013			2mt
17 11 06	10a	east		1013		2mtr
17 11 06	11a	east	interior of Rotunda Museum	discarded		
17 11 06	12a	west	interior of Rotunda Museum	discarded		
17 11 06	13a	west	interior of Rotunda central drum			
17 11 06	14a	east	1013 1009			2mtr
17 11 06	15a	south	F1014 and wall	discarded		2mtr
17 11 06	16a	south	F1014 and wall	discarded		2mtr
17 11 06	17a	west	1000 1013 F1015			2mtr
17 11 06	18a	south	F1014 wall			2mtr
17 11 06	19a	west	1013 F1015	discarded		2mtr
17 11 06	20a	down	stones in 1013	discarded		2mtr
17 11 06	21a	west	F1012 , 1003			2mtr
17 11 06	22a	north	F1012 ,			2mtr
17 11 06	23a	north	F1006 F1015	discarded		2mtr
17 11 06	24a	north	F1006, F1015			2mtr
17 11 06	25a	north	F1006, F1015	discarded		2mtr
17 11 06	26a	north	F1006 F1015	discarded		2mtr
17 11 06	27a	west	f1006 F1015 1013			2mtr
17 11 06	28a	north	F1012 F1015			2mtr
17 11 06	29a	north	f1012	discarded		2mtr
17 11 06	30a	north	F1015	discarded		2mtr
17 11 06	31a	west		1013		2mtr
17 11 06	32a	north	F1015 1010			2mtr
17 11 06	33a	east	front of Rotunda Museum			2mtr
17 11 06	34a	north	cntrance to Rotunda Museum cellar			2mtr
17 11 06	35a	north	cntrance to Rotunda Museum cellar	discarded		2mtr
17 11 06	36a	north	entrance to Rotunda Museum cellar			2mtr

SITE NAME		Rotunda Museum Film 7		SITE CODE	RT 06
FILM NUMBER		7		FILM TYPE	Colour print
Date	Frame No	Direction of view	Description	Context	Scale
17 11 06	3a	down		1013.1009	2mtr
17 11 06	4a	west	Front, f1006,f1007, 1009	discarded	2mtr
17 11 06	5a	west	Front, f1006,f1007, 1009		2mtr
17 11 06	6a	east	Front showing under pinning F1013		2mtr
17 11 06	7a	north	east side under pinning		2mtr
17 11 06	8a	east	front under pinning		2mtr
17 11 06	9a	east	front of museum	discarded	2mtr
17 11 06	10a	east	front of museum		2mtr
17 11 06	11a	north	Sue wood archaeologist on site	discarded	2mtr
17 11 06	12a	east	bridge to sea	discarded	
17 11 06	13a	north	east side under pinning	discarded	
17 11 06	14a	north	doorway of rotunda	discarded	
17 11 06	15a	east	Front of museum and cleared terrace		
17 11 06	16a	north	east side under pinning		
17 11 06	17a	north	front under pinning		2mtr
17 11 06	18a	west	cleared front terrace		2mtr
17 11 06	19a	east	F1007, F1005, 1009		2mtr

**ANNEX 3 – FINDS DATABASE**











**ANNEX 4 – PHOTOGRAPHS REFERRED TO IN THE TEXT**